

DECORATIVE LIGHTING SYSTEM AND DECORATIVE  
ILLUMINATION DEVICE

ABSTRACT OF THE INVENTION

A decorative lighting system includes a command controller, a plurality of illumination devices and a flexible cord interconnecting each. The command controller includes a microcontroller that provides a data signal and a clock signal. The data signal instructs a plurality of addresses corresponding to the lighting devices. Each illumination  
5 device has at least three light emitting diodes (LEDs). The LEDs each emit light at a different wavelength than either of the other LEDs. An integrated circuit LED is responsive to the data signal, clock signal, and power signal and drives the first, second, and third LEDs by to a blink rate and intensity. The LED driver includes a plurality of pulse width modulation registers that are selectable in combination to drive the LEDs to a  
10 blink rate and intensity independent of one another.

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